

**NOTICE OF PROPOSED REGULATION  
BRAZILIAN AIRWORTHINESS DIRECTIVES**

**REPÚBLICA FEDERATIVA DO BRASIL  
AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – ANAC  
Gerência Geral de Certificação de Produtos Aeronáuticos**

**Reference:** NPR/AD 2008-145-01

**Date:** 04 July 2008

*In accordance with the provisions of RBHA 11, The Aeronautical Products Certification Branch (GGCP) is proposing the issuance of a Brazilian Airworthiness Directive applicable to the aeronautical product referred below.*

*All the persons interested may send their comments until the date specified in item 2, indicating the **Reference** above, to the following address or fax-number:*

*National Civil Aviation Agency (ANAC) - Aeronautical Products Certification Branch (GGCP)  
Av. Cassiano Ricardo, 521, Bloco B, 2º andar, Parque Residencial Aquarius  
12246-870 – São José dos Campos - SP - Brazil - Fax: 55 (12) 3797-2330 - E-mail: pac@anac.gov.br*

**1. Proposer:** Engineering Branch of Aeronautical Products Certification Branch.

**2. Comments:** Must be received until 03 Aug. 2008.

**APPLICABILITY:** *This Airworthiness Directive is applicable to Embraer EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145LR, EMB-145LU, EMB-145MR, EMB-145MP, EMB-145MK, EMB-145XR, EMB-135ER, EMB-135LR, EMB-135KE, EMB-135KL and EMB-135BJ aircraft models, as identified in the Embraer Service Bulletins Nos. 145-49-0034 original issue or 145LEG-49-0008 original issue, both dated 18 Apr. 2008, or in its respective further revisions approved by the ANAC.*

**CANCELLATION / REVISION:** *Not applicable.*

**REASON:** *It has been found the occurrence of corrosion on the Auxiliary Power Unit (APU) mounting rods, that could cause the APU rod to break and thus affect the integrity of APU support structure.*

*Since this condition affects flight safety, a corrective action is required. Thus, sufficient reason exists to request compliance with this AD in the indicated time limit.*

**REQUIRED ACTION:** *Detailed Inspection (DI) of the APU mounting rods; rework of the mounting rods and, if necessary, their replacement.*

**COMPLIANCE:** *Required as indicated below, unless already accomplished.*

*Within the next 1500 flight hours or 6 months after the effective date of this AD, whichever occurs first, perform a DI on each APU mounting rods, as well on the rod ends, for corrosion, and therefore to prevent a hazardous level of corrosion from developing in the APU auxiliary and center mounting rods.*

- (a) If only light corrosion (corrosion which has not caused surface blistering) is found during the inspection required above, remove the corrosion and apply an anticorrosive treatment to the affected APU mounting rods.*
- (b) If moderate or heavy corrosion (corrosion which has caused surface blistering) is found during the inspection required above, replace the affected APU mounting rods by new ones having the same part number (P/N).*

**NOTE:** *For the purpose of this AD, a Detailed Inspection (DI) is: “An intensive examination of a specific item, installation or assembly to detect damage, failure or irregularity. Available lighting is normally supplemented with a direct source of good lighting at an intensity deemed appropriate. Inspection aids such as mirrors, magnifying lenses, etc. may be necessary. Surface cleaning and elaborate access procedures may be required.”*

*The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletins Nos. 145-49-0034 original issue or 145LEG-49-0008 original issue, or in its respective further revisions approved by the ANAC.*